ASME B31.4 Pipeline Transportation Systems for Liquid Hydrocarbons & other Liquids

28 Oct - 01 Nov 2018, Dubai
ASME B31.4 Pipeline Transportation Systems for Liquid Hydrocarbons & other Liquids

Introduction

This GLOMACS training course focuses on the ASME B31.4 for Pipeline Transportation Systems for Liquid Hydrocarbons and other Liquids. This GLOMACS training course introduces the different parts of the ASME B31.4 Standard and will cover all topics requirements for safe design, construction, inspection, testing, operation and maintenance of liquid pipeline systems.

Furthermore, assessing pipeline integrity is an essential part of this Code to ensure the safe transportation of liquids. In addition, the design, materials examination, testing, construction, welding, assembly corrosion control and offshore liquid pipeline systems are handled in detail.

This GLOMACS training course on Centrifugal Compressor will address the design, performance, operation limits, control system and the troubleshooting techniques of centrifugal compressors and the parameters affecting the above.

This GLOMACS training course will feature:

- Scope and applications of ASME B31.4
- The pressures design formula for internal and external stress
- General requirements of materials
- Identify the requirements for the Operation and Maintenance procedures
- Different requirements related to inspection and testing of a pipeline
- Requirements for the offshore pipeline related materials, inspection, testing, Operation and Maintenance procedures
- Internal and external corrosion
- Internal and external Corrosion Control

Objectives

This GLOMACS training course is designed for those interested in ASME B31.4 for Pipeline Transportation Systems for Liquid Hydrocarbons and other Liquids:

- Identify the design stress from external, internal and calculate the pipe wall thickness and allowances
- General Criteria for Piping Components including branches, flanges, valves, reducers and Closures
- Explain the Materials — General Requirements, acceptance and limitation
- Gain more information about the Construction, Welding, and Assembly of pipelines
- Identify the required inspection and testing of the pipelines
- Receive enough information about the Operation and Maintenance Procedures Affecting the Safety of Liquid Transportation Piping Systems
- Focusing and learning on the internal and external corrosion monitoring, control and cathode protection
- Employing pre and post weld heat treatment and identify the Charpy impact testing
- Explain the Offshore Liquid Pipeline Systems related design construction inspection and testing

Training Methodology

This GLOMACS training course will be conducted along workshop principles with formal lectures, videos and interactive worked examples. Each learning point will be re-enforced with practical exercises and ample opportunities for discussion and sharing of experiences. The course instructor may modify the above training methodology before or during the course for technical reasons.

Who Should Attend?

This GLOMACS training course is suitable to a wide range of professionals but will greatly benefit:

- Pipeline Designers
- Pipeline Contractors
- Pipeline Operators
- Public Safety Officials
- QA/QC Inspectors
- Maintenance Engineers
- Inspection Testing Professionals
- Fabrication Fabrications
- QA/QC Reliability Professionals for Oil and Gas (Petrochemical and Refining) Operations
Seminar Outline

DAY 1
- Introduction and History of ASME Codes
- Scope and Definitions
- Content, Coverage and Exclusions
- Design include Load Classifications Calculation of Stresses
- Criteria for Pipe Wall Thickness and Allowances
- Criteria for Crossings
- Criteria for Fittings, Assemblies, and other Components
- General Requirements of Materials
- Construction, Welding, and Assembly
- Assembly of Piping Components

DAY 2
- Inspection and Testing
- Type and Extent of Examination Required
- Hydro-static Testing of Internal Pressure Piping and Leak Testing
- Pipeline Operation and Maintenance
- External or Internal Corrosion, Gouging, Dents and Cracks
- Permanent Repairs Types and Selections
- Pump Station, Terminal, and Tank Farm Operation and Maintenance
- Emergency Plans

DAY 3
- External Corrosion Control — buried pipelines
- Coating and Cathode Protection Requirements
- Testing and Inspection of Cathode Protection
- Internal Corrosion Control
- External Corrosion Control for Pipelines Exposed to Atmosphere
- External Corrosion Control for Thermally Insulated Pipelines
- Offshore Liquid Pipeline Systems
- Scope and Definitions
- Installation Design Considerations

DAY 4
- Operational Design Considerations
- Hydro-static Test Design Considerations
- Design Criteria Offshore Liquid Pipeline Systems
- Design for Expansion and Flexibility
- Pressure Design of Components Straight Pipe and Branch Connections
- Materials — General requirements for offshore liquid pipeline systems
- Construction of Offshore Liquid Pipeline including Inspection, Welding, Right-of-Way, Ditching

DAY 5
- Testing of Offshore Liquid Pipeline Systems
- Operation and Maintenance Procedures Affecting the Safety of Liquid Transportation Piping Systems
- Pipeline Repairs Offshore Liquid Pipeline Systems
- External Corrosion Control for Offshore Submerged Pipeline
ASME B31.4 Pipeline
Transportation Systems for Liquid Hydrocarbons & other Liquids

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<td>Dubai</td>
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4 WAYS TO REGISTER

Tel: +971 (04) 425 0700  
Fax: +971 (04) 425 0701  
Email: info@glomacs.com  
Website: www.glomacs.com

TERMS AND CONDITIONS

- Fees – Each fee is inclusive of Documentation, Lunch and refreshments served during the entire seminar.
- Mode of Payment – The delegate has the option to pay the course fee directly or request to send an invoice to his/her company/ sponsor. Credit card and cheque payments are both acceptable.
- Cancellation / Substitution – Request for seminar cancellation must be made in writing & received three (3) weeks prior to the seminar date. A US$ 250.00 processing fee will be charged per delegate for each cancellation. Thereafter, we regret that we are unable to refund any fees due, although in such cases we would be happy to welcome a colleague who would substitute for you.
- Hotel Accommodation – is not included in the course fee. A reduced corporate rate and a limited number of rooms may be available for attendees wishing to stay at the hotel venue. Requests for hotel reservations should be made at least three (3) weeks prior to the commencement of the seminar. All hotel accommodation is strictly subject to availability and terms and conditions imposed by the hotel will apply.
- Attendance Certificate – a certificate of attendance will only be awarded to those delegates who successfully completed/ attended the entire seminar including the awarding of applicable Continuing Professional Education Units/Hours.
- Force Majeure – any circumstances beyond the control of the Company may necessitate postponement, change of seminar venue or substitution of assigned Instructor. The Company reserves the right to exercise this clause and implement such amendments.
- Fair Access / Equal Opportunities – In the provision of its services as a world-class Training Provider, the Company is committed to provide fair access / equal opportunities throughout the delivery of its courses and assessment leading to the completion of training seminars, or 3rd party qualifications/certifications.

REGISTRATION DETAILS

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AUTHORISATION DETAILS

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PAYMENT DETAILS

☐ Please invoice my company
☐ Cheque payable to GLOMACS
☐ Please invoice me

CERTIFICATION

Successful participants will receive GLOMACS’ Certificate of Completion